

Direct Internet Access in the Global System for Mobile Communications**Abstract**

The Direct Internet Access system makes use of an L2TP/UDP/IP connection to the Internet via a L2TP Network Server and the existing Local Area
5 Network or Wide Area Network of the cellular communication network. This system uses a Layer 2 Tunneling Protocol which provides a virtual dial-up access to corporate gateways by extending the dial-up connection that is established between the mobile subscriber station and the Mobile Switching Center to the Internet or a corporate gateway over the Internet. The user has an L2 connection
10 to an access concentrator in the Mobile Switching Center, which then tunnels individual Point-to-Point Protocol frames to the L2TP Network Server, so that the packets can be processed separately from the location of the circuit termination. This means that the mobile subscriber station call connection can terminate at a local circuit concentrator in the Mobile Switching Center, eliminating possible long-
15 distance charges, among other benefits.